

Supplement of Nat. Hazards Earth Syst. Sci., 18, 1279–1296, 2018
<https://doi.org/10.5194/nhess-18-1279-2018-supplement>
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Supplement of

Assessing floods and droughts in the Mékrou River basin (West Africa): a combined household survey and climatic trends analysis approach

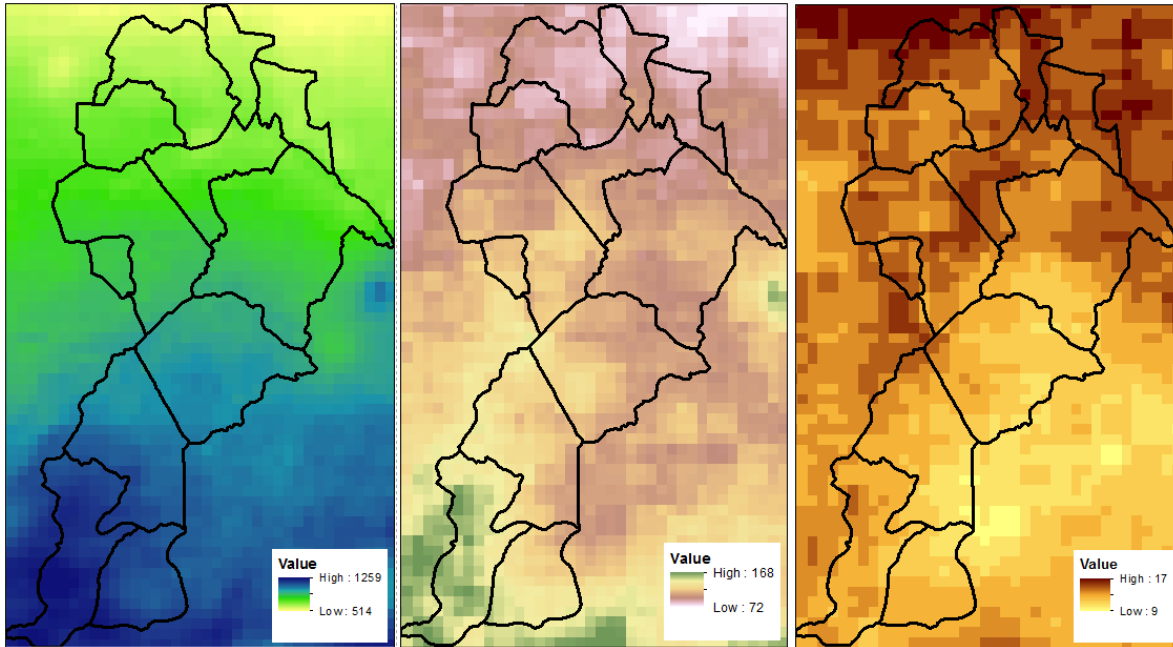
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Supplementing Material

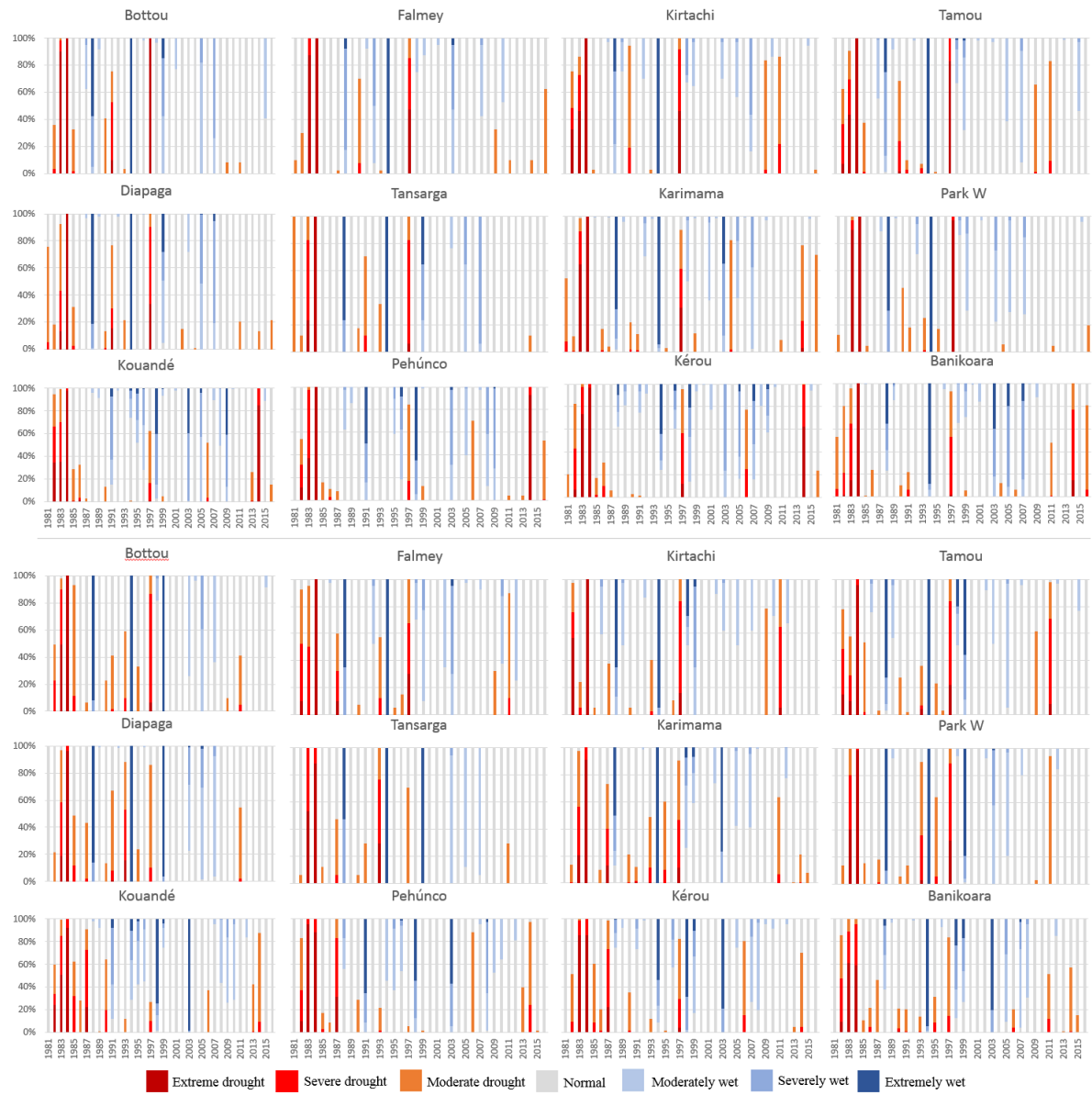
S1. Figure 6: Mean Annual Precipitation, Standard Deviation and Coefficient of Variation (%) of the entire time series available (CHIRPS 1981-2016), in the Mékrou river basin.



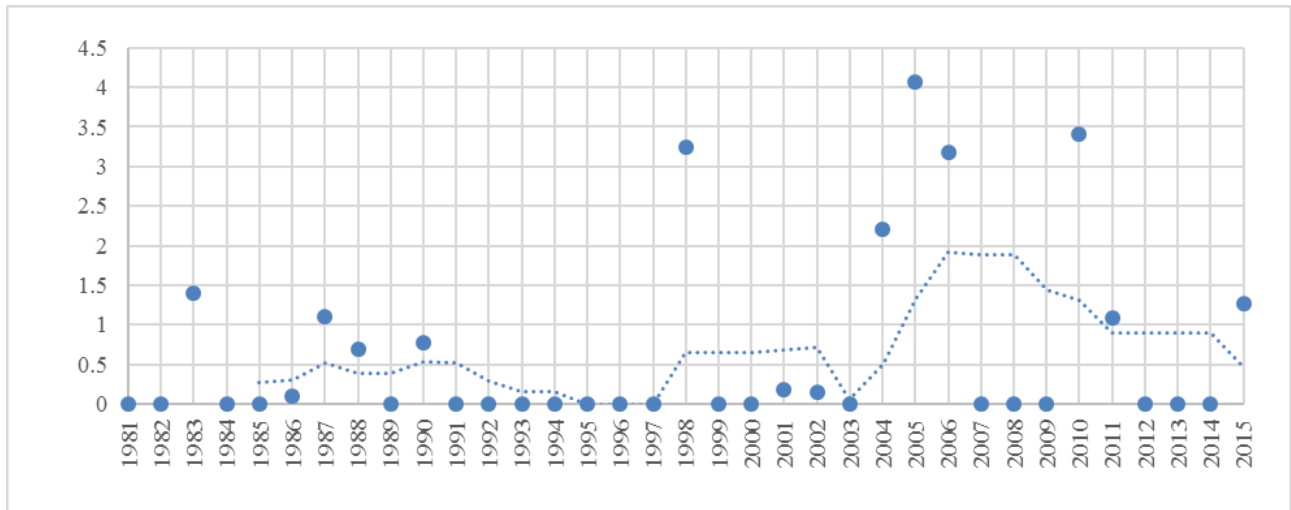
S2. Figure 7: Number of Wet/Dry events per administrative area and SPI type.

	SPI-3				SPI-6					SPI-3				SPI-6									
	W.e		D.e		W.e		D.e			W.e		D.e		W.e		D.e							
	Benin									Niger								Burkina Faso					
Kouandé	2	1	3	2	Park W	1	0	0	1	Tansarga	1	0	1	0									
Pehúnco	2	2	2	2	Tamou	2	2	0	2	Diapaga	1	0	1	1									
Kérou	2	1	2	1	Kirtachi	1	2	0	2	Bottou	2	0	0	1									
Banikoara	1	3	2	2	Falmey	2	2	2	2														
Karimama	1	2	1	1	Falmey	2	2	2	2														

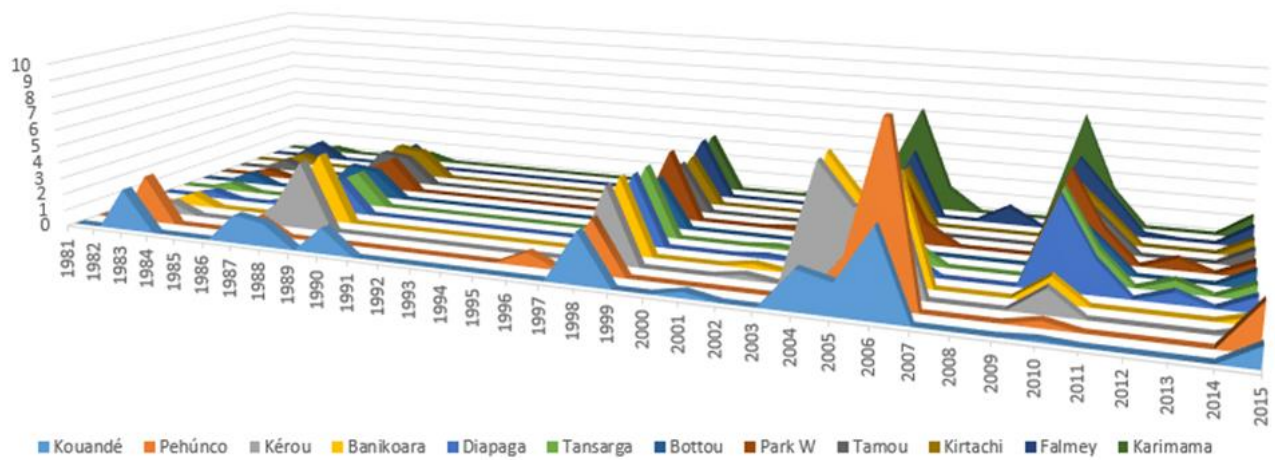
S3. Figure 8: Temporal profile of SPI-3 (JJA) and SPI-6 (AMJJAS). Area percentage per administrative unit affected by different anomaly categories



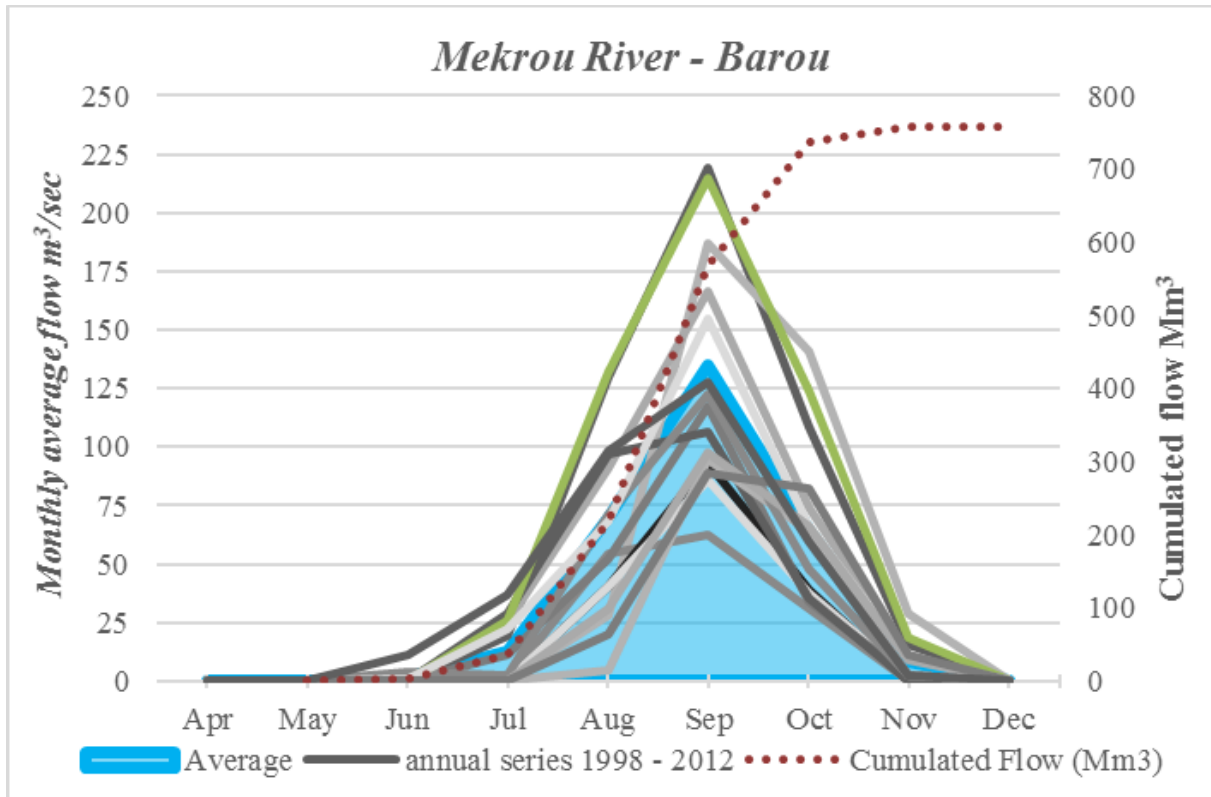
S4: Figure 9: Mean Heat Wave Magnitude Index for the entire Area of Influence and 5-year moving average.



S5: Figure 10: Temporal profile of Heat Wave Magnitude Index per Administrative Area



S6. Figure 11: Monthly average discharge at Barou station as modelled in SWAT for the period 1998-2012; in blue the average; dashed red line is cumulated flow in cubic meter.



S7. Figure 12: Annual water flow (Mm3) in several subbasin in the Mekrou.

